

**EXTRACTING INFORMATION FROM INPUT DATA USING A  
SEMANTIC COGNITION NETWORK**

Arno Schaepe  
Maria Athelougou  
Ursula Benz  
Christof Krug  
Gerd Binnig

**ABSTRACT OF THE DISCLOSURE**

A method is disclosed for extracting information from input data comprising mapping of the input data into a data object network. The method uses a semantic cognition network comprised of the data object network, a class object network and a processing object network. The semantic cognition network uses a set of algorithms to process the semantic units. The semantic cognition network defines a processing object in the processing object network by selecting a data domain in the data object network, a class domain in the class object network and an algorithm from the set of algorithms. The processing object comprises the data domain, the class domain and the algorithm. The processing object is used in the processing object network to process the semantic units.